1 ELECTRONIC WATERMARKING METHOD AND APPARATUS FOR COMPRESSED
2 AUDIO DATA, AND SYSTEM THEREFOR

3 Abstract

4 The present invention provides a method and a system with
5 which information embedded in compressed digital audio data
6 can be directly operated. An embodiment of the system for
7 embedding additional information in compressed audio data
8 includes: means for extracting MDCT (Modified Discrete
9 Cosine Transform) coefficients from the compressed audio
10 data; means for employing the MDCT coefficients to calculate
11 a frequency component for the compressed audio data; means
12 for embedding additional information in the frequency
13 component obtained in a frequency domain; means for
14 transforming into MDCT coefficients the frequency component
15 in which the additional information is embedded; and means
16 for using the MDCT coefficients, in which the additional
17 information is embedded, to generate compressed audio data.